



EMTEC



Manual
MP3 Player
C220

>> www.emtec-international.com

Thank you for purchasing the C220 versatile digital audio player, that delivers a combination of style, features and user friendliness. It is the best combination that you cannot find anywhere else - a new experience of powerful, yet intuitive control over your multimedia collection.

Features and highlights

- Internal memory: max 1GB available
- 1.8" full color TFT display
- Built-in speaker
- Support MP3/ WMA playback
- USB 2.0 full speed
- ID3 tag supported
- Photo viewing (JPG supported)
- Video viewing (conversion required)
- Mass storage class
- High quality voice recording with built-in microphone
- Integrated FM radio with 20 station memory
- FM frequency 87.5MHz – 108MHz in 0.1MHz / step
- 5 equalizers: Normal, Jazz, Rock, Classic, Pop
- 5 play modes: Normal, Repeat one, Repeat all, Random, Repeat random

REGULATORY INFORMATION:

For customers in USA or Canada

Declaration of Conformity

Trade Name: EMTEC

Model: C220

This device complies with part 15 of FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Notice:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

If the product suddenly has no response or power off, it may be caused by electrostatic discharge. If this circumstance, please follow the procedures below for recovery:

- Turn off the unit pressing and holding the Power key for a few seconds.
- Turn on the unit again in 15 seconds.

For customers in Europe

This product conforms to the following European Directives: 89/336/EEC (EMC Directive)

This product complies with EN55022/A1: 2000 and EN 55024/A1: 2001 for use in the following areas: residential, commercial and light industrial.

DISPOSAL OF YOUR OLD PRODUCT

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.



When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.

Please inform yourself about the local separate collection system for electrical and electronic products.

Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

CUSTOMER SERVICE

If you have any question about this product, please send email to WWW.EMTEC-international.com

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LIABILITY EXEMPTION STATEMENT

1. All the information included in this manual was produced with our great caution, but there may still be some errors and mistakes. EMTEC will not be held responsible for those errors and mistakes.
2. As we can't control users' understanding of this manual, EMTEC will not be held responsible for any accident or other loss caused by misunderstanding of this manual. We shall not be held responsible either for any loss caused by using this product or for any claim by any third party.
3. EMTEC will be held responsible only for the inherent problem of the device itself, but not for data loss, modification of the device or other indirect loss resulting from mal-operation of software, maintenance or other accidents. EMTEC will not be held responsible for restoration of any personal data lost.
4. EMTEC reserves the right to modify software, hardware and user manual of this device without prior notice.
5. To make copies, publish, transfer, store in a traceable system, or translate to any other language without written authorization from EMTEC is strictly prohibited.

SAFETY PRECAUTION



Warning:

C220 is a precise device made of sensitive components like hard disc, TFT display and rechargeable battery. There are some safety precautions and guidelines which must be followed strictly.



Do not place heavy objects on the device. Keep away from harsh environments including humid, dusty and smoky areas.



Avoid contact with water and other liquid.



Do not use water or chemicals to clean the device. Clean the surface with a soft cloth.



Do not clean with chemical or detergent.



Do not use excessive force on the buttons.



Keep out of direct sunlight, extreme heat or cold.



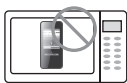
To avoid damage, make sure you do not drop, smash, bend or crash the player.



Keep the player away from strong magnetic fields.



Do not disassemble or modify the device yourself.



Do not dry the device with heater or microwave.



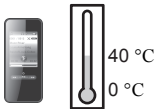
When you upload or download files using USB cable, do not disconnect USB cable during data transfer or turn the device off.



Data can be damaged because of physical impact, lightning and power failure.



Do not use headphone/earphone while cycling, driving, or operating any motorized vehicle.



Make sure you only use the device where temperature is between 0 °C - 40 °C.



Do not use headphone/earphone at high volume. Hearing experts advise that do not listen to continuous, loud and extended playback.



Reduce volume or stop using the player if you experience a ringing in your ears.



Do not use the device at high volume for continuous listening.

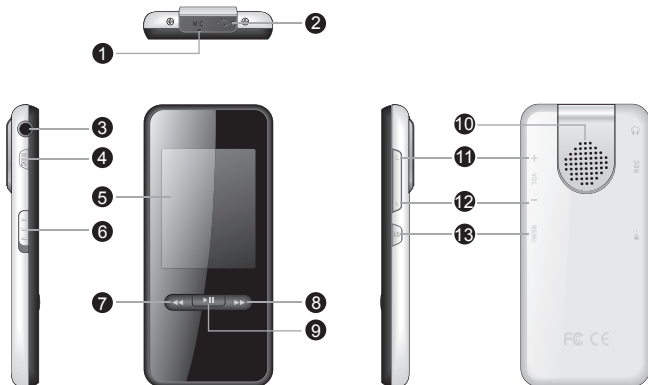


Keep headphone/earphone cords under control to avoid getting caught on various objects.



Reduce volume while walking especially at pedestrian crosswalk.

LOCATING THE CONTROLS AND KEYS





- ❶ Built-in microphone
- ❷ USB 2.0 port and its cover
- ❸ Earphone jack
- ❹ Record key
- ❺ 1.8" TFT display
- ❻ Hold key
- ❼ Previous track / Rewind
/ Navigation key
- ❽ Next track / Fast forward
/ Navigation key

- ❾ Play / Pause / Enter / ⏻
- ❿ Built-in Speaker
- ⓫ Volume +
- ⓬ Volume -
- ⓭ Menu key (Jump to main
menu by holding the Menu
key) / back / exit

DESCRIPTION OF LCD DISPLAY



- | | |
|--|--|
| ① Hold icon | ⑨ Volume indicator |
| ② Mode indicator | ⑩ Battery indicator |
| ③ Current track no. / Total track no. | ⑪ File format |
| ④ Song name | ⑫ Playmode indicator |
| ⑤ Artist name | ⑬ Playback status |
| ⑥ Album name | ⑭ Total playback time of current track |
| ⑦ Elapsed playback time of current track | ⑮ Playback progress bar |
| ⑧  Listening with earphone icon | |
|  Listening with built-in speaker icon | |

CONTENTS IN THE PACKAGING



Main Unit



User Manual



USB cable
(for PC connection
and battery charging)



Earphone



CD

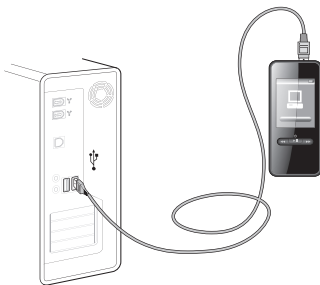


Note:

Please keep all the packing materials for future use in case the device needs transportation or eventual repair.

BATTERY CHARGING

Charge the battery using the supplied USB2.0 cable. When connecting the player to PC via USB cable and it will start charging automatically. And it will take about 4 hours to charge the player fully.



Screen displays as below when charging:



Note:

1. For first time use, please charge the player for at least 4 hours.
2. If the device is connected to PC via a USB hub, the USB hub must be self-powered in order to charge the battery properly.
3. Charging time may be prolonged due to file transfer.

MINIMUM PC SYSTEM REQUIREMENT

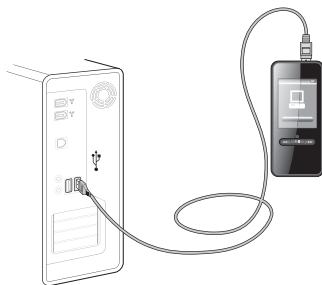
You can connect the player to PC via the provided USB2.0 cable for the purposes of battery charging, file transfer and firmware upgrade. Your PC system must meet the following minimum requirement:

- Windows 2000 (Service pack 3 or above) with Windows Media Player 9 Series
- Or Windows XP (Service pack 2 or above) with Windows Media Player 10 Series
- Pentium Class MMX 166 MHz processor or better
- 96MB RAM
- 50MB hard drive space
- Internet connection
- Microsoft Internet Explorer 5.5 or later
- Video display card
- Sound card
- USB port 1.1 (for faster data transfer, USB 2.0 is highly recommended)

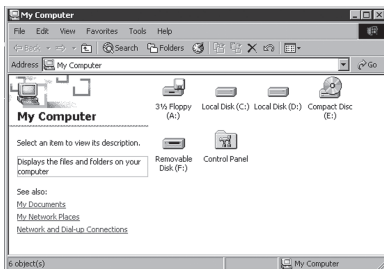
CONNECTED TO THE COMPUTER

Connect C220 to PC

Connect the smaller end of the included USB cable to the USB 2.0 port on the device and the bigger end to a free USB port on your computer as illustrated below:



Windows will show "Found New Hardware" when the device is first attached. The device will be recognized as a new device under "My Computer".

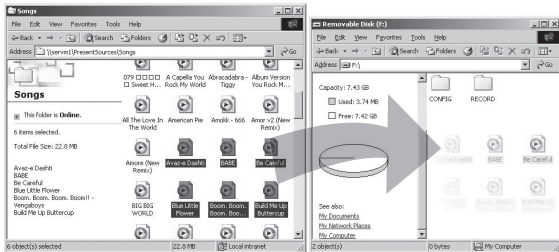


Please note that depending on the hardware configuration, it may take several minutes for Windows to recognize the device for the first time.

FILE TRANSFER

When the device is connected to PC for uploading/downloading, no special operation but only simple "drag-drop" is needed.

1. Double click "My Computer" in Windows, you will find a new icon "Removable Disk", which represents the device.
2. Drag the desired files to "Removable Disk".

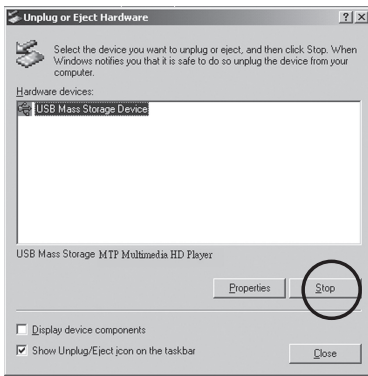


DISCONNECT THE PLAYER FROM PC

1. Double click the hardware icon on the task tray of your computer as the figure below:



2. Click the popup message as shown below, then a window will appear.



3. Select your player and click "ok" button in the new popup window to confirm the disconnection.
4. When the popup window "Safe To Remove Hardware" appears, click "ok" and disconnect the USB cable from PC.





Note:

1. You can also upload the files from C220 to your computer.
2. During uploading or downloading, keep the supplied USB cable connected to PC.
Unplug the USB cable from PC after file transfer is completed.
3. The device can store all types of files in addition to media files (music, photo, converted video).
4. Data files that are stored on the player cannot be browsed using the player's interface.

FORMAT HARD DISK

To format the harddisk, connect the device to PC, then right click the drive and select "Format" under FAT 32.



Note:

Please refer to the instructions on our website for detail.

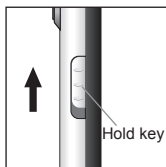
BASIC OPERATION

Power on / off

Press and hold the ►|| key for a few seconds to turn on/off the device.

Key lock

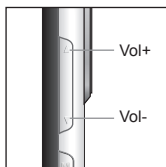
When the slide key "Hold" is in UP position, all keys except the key Vol+/- will be disabled and there will be "lock" icon (🔒) at the upper left corner of display. With this function, unintended operations shall be prevented.



Slide the "hold" key upward

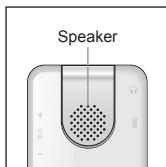
Adjust volume

Press Vol. + /- key to adjust the volume.



Speaker

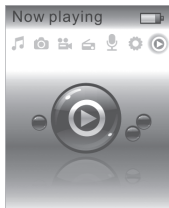
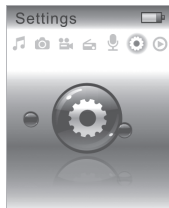
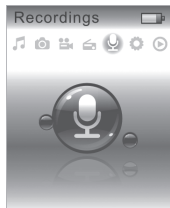
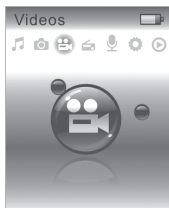
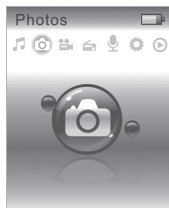
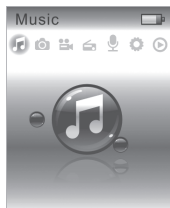
The speaker on the device will work automatically when there is no earphone inserted.



NAVIGATE MAIN MENU

Main menu contains Music mode, Photos mode, Videos mode, Radio mode, Recordings, Settings and Now playing mode (visible only when music is being played right now). You can always press and hold **M** key to go back to main menu regardless of the operation mode in which you are now.

When you are in main menu, press ◀◀ or ▶▶ key to select different modes (highlighted), then press ▶|| key to enter as illustrated below.

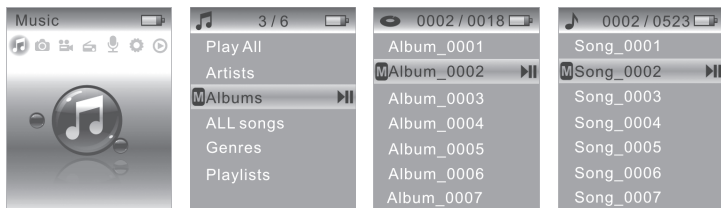


Available only when a song is being played.

MUSIC MODE

Browse music

Tracks grouped by different categories, including Play all, Artists, Albums, All songs, Genres and Playlists can be browsed level by level. The last level is the song level.



Here is the key operation as below:

Key	Operation
►	Go to the next page or Start playback / Play the whole categories
►►	Move upward
◄◄	Move downward
M	Go to previous page (press briefly) / Go to main menu (press and hold for a few seconds)

Play songs

When the desired song is select, press ►|| key to start playback. In playback mode, press ►|| key to pause and resume the playback when pressing it again. During playing, press " ►► " to start playing the next track. Within 5 seconds after start of a track, press " ◄◄ " to start playing the previous track; after 5 seconds from the start of a track, press " ◄◄ " to go to the start of the track. Press and hold ◄◄ or ►► key for a few seconds to fast rewind or fast forward.

Tips:

You can always go back to main menu pressing and holding M key for a few seconds.

MUSIC MODE

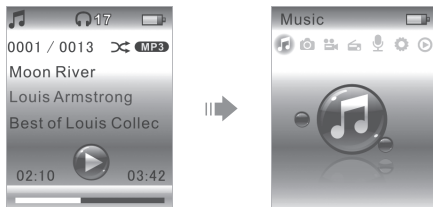
Adjust volume during playback

Press Vol. +/- key to adjust the volume; volume adjust bar will popup as illustrated below and it will disappear after 1.5 seconds for no further input.



Browse multimedia collection during playback

If you'd like to select any other mode (Photos mode, Videos mode etc.) during playback, press **M** key to go back to previous page. Press and hold the **M** key for a few seconds to go back to main menu and select the desired mode.



Playlist on-the-go

Add songs to “Playlist on-the-go”

When on the playback screen, you can press “REC” key to add the song being played to “playlist on-the-go”.



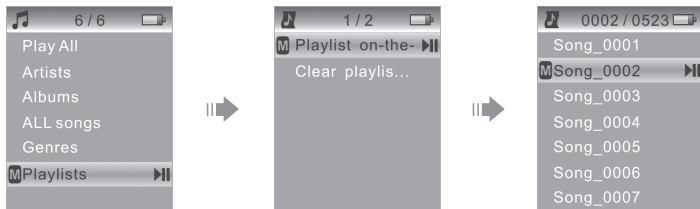
Note:

when selecting the option “Play all” in Music mode, this feature is not available.

MUSIC MODE

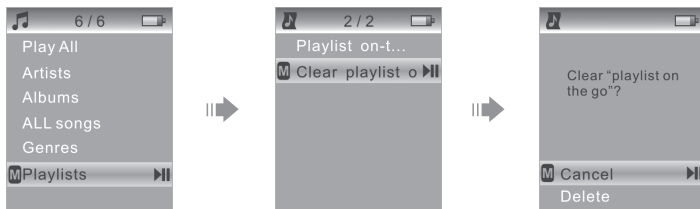
Play “Playlist on-the-go”

Select the option “Playlists” in Music mode using the ◀◀ or ▶▶ key and press ▶|| key to enter. Then, select the option “Playlist on-the-go” and press ▶|| to enter. Now you can see all the music files added to “Playlist on-the-go”. Select the desired music file and press ▶|| key to start playback.



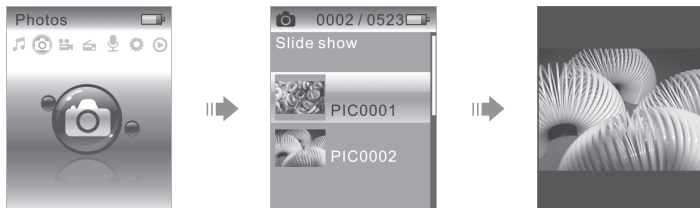
Delete “Playlist on-the-go”

Select the option “Playlists” in Music mode using the ◀◀ or ▶▶ key and press ▶|| key to enter. Then, select the option “Clear playlist on-the-go” and press ▶|| to enter. And now there are two options “Cancel” and “Delete” on the screen. Select “Delete” and press ▶|| key to clear “Playlist on-the-go”. Select “Cancel” and press ▶|| key to exit.



PHOTOS MODE

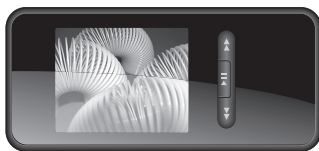
Highlight the desired photo in Photos mode, press ►|| key to display it. Press ►► or ◀◀ key to display the previous or next photo.



You can enjoy photos in two modes: browse in thumbnail / full size and slideshow.

View the photo

To view a photo, the default viewing angle of the unit is shown as below:



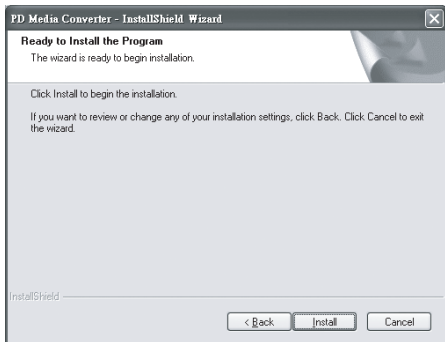
You can rotate the photo by pressing **REC** key.

VIDEO MODE

File conversion

To play a video clip or view an image in the player, you have to install the conversion software and convert the files before file transfered to the player.

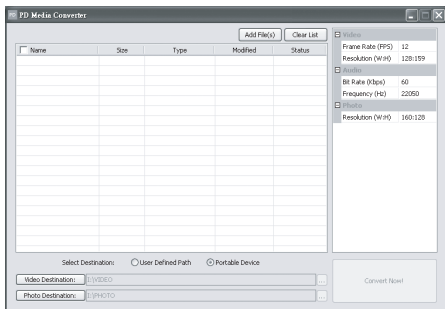
1) Please insert the included CD and install the conversion software.



2) Follow the instruction and complete the installation

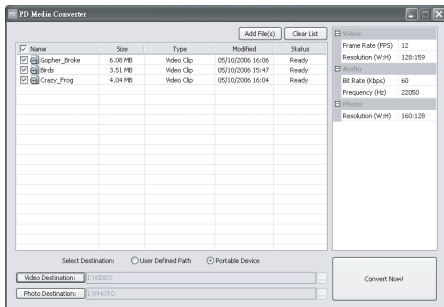
After the installation is completed, you can start converting the files.

1) Connect your device to PC and run the software. Following screen will be shown.



VIDEO MODE

- 2) The best configuration (on the right panel) is set according to your device connected.
- 3) Click “Add Files” and choose the file you want to convert.
- 4) The converted files can be stored to
 - Portable device (default), or
 - User Defined Path
- 5) If “User Defined Path” is chosen, you can select the video and photo destination.



- 6) Click “Convert Now!” to start the conversion.
- 7) After conversion is completed, converted files will be stored to your device or defined destination.

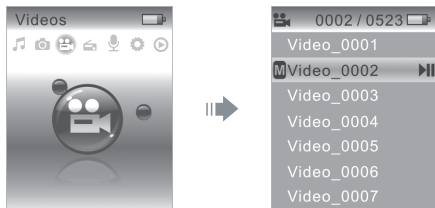


Note:

Actual interface of the software will subject to the changes on software version.

Play videos

Highlight the desired video in Videos mode, press ►|| key to start playback.



Press ►|| key to pause and press it once again to resume normal playback. Press and hold ◀◀ or ▶▶ key for a few seconds to fast backward and fast forward. Press and hold M key for a few seconds to go back to main menu or press it briefly to go back to the previous page.

RADIO MODE



Note:

In Radio mode, an earphone must be inserted into the device as it serves as radio antenna.

In main menu, select and highlight the Radio mode using ◀◀ or ▶▶ key and press ►|| key to enter. Three options will be available on the screen, i.e. Presets, Manual tune and Auto tune.

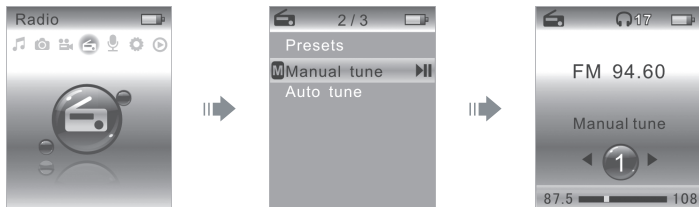
Presets

Select and enter the option Presets, you can find all the radio stations saved in the device. Select one station you like using ◀◀ or ▶▶ key and press ►|| key to listen. When you are listening to one preset station, press ◀◀ or ▶▶ to go to previous or next preset station.
(note: up to 20 stations can be saved in the device)



Manual tune

Select and enter the option Manual tune, you can search for a radio station manually (FM frequency range: 87.5MHz ~ 108MHz). Press ◀◀ or ▶▶ key to search and press ▶▶ key to save in the device.



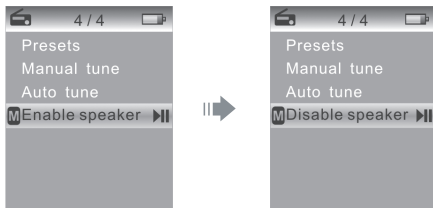
Auto tune

Select and enter the option Auto tune, you can scan all the radio stations and save them in the device automatically.



Speaker

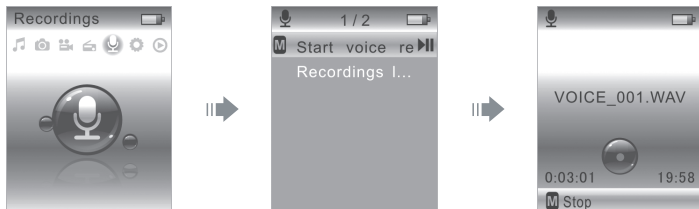
When listening to the radio, press **M** key to find the following screens in order to enable or disable the built-in speaker as you wish. (note: in Radio mode, an earphone must be inserted into the device as it serves as radio antenna.)



RECORDINGS MODE

In main menu, select and highlight the Recordings mode using ◀◀ or ▶▶ key and press ▶|| key to enter. Then, two options will be available on the screen, i.e. Start voice recording and Recordings library.

Select and enter the option “Start voice recording”, you can start voice recording. Press ▶|| key to pause and press it again to continue the recording. Press **M** key to save the recording.



You can also press and hold the **REC** key for a few seconds to start voice recording directly regardless of the operation mode in which you are.

Select and enter the option “Recordings library”, you can play all the recordings saved in the device.

SETTINGS MODE

In main menu, select and highlight the Settings mode using ◀◀ or ▶▶ key and press ▶|| key to enter. You can set it as illustrated below:



SETTINGS MODE

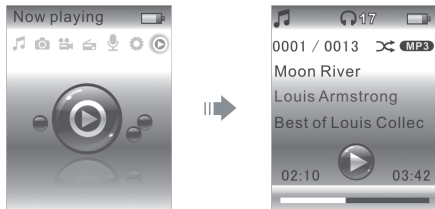
There are seven settings available in the device as illustrated below in the table.

Settings	Control
Play mode	Adjust the play mode. Options: Off, Repeat 1, Repeat all, Shuffle all and Repeat & Shuffle.
Equalizer	Adjust the EQ mode. Options: Off, Rock, Jazz, Classic and Pop
Slideshow settings	Adjust the interval of slideshow. Options: 3 sec, 5 sec and 10 sec.
Language	Select the OSD menu language. Options: English, German, Dutch, French, Spanish, Portuguese, Portuguese (for Brazil), Italian, Swedish, Russian, Polish.
Backlight	Adjust the backlight of the LCD display. Options: Always on, 10 seconds, 30 seconds and 60 seconds.
Factory settings	To restore the factory settings
Information	To check the information of the device, including Capacity, Free space and Firmware version.

When making the settings, press ◀◀ or ▶▶ key to navigate and located the desired options, press **M** key to go back to the previous page and press ▶|| key to enter and confirm.

NOW PLAYING MODE

Now playing mode provides a short cut to the music file being played now.



TROUBLE SHOOTING

Symptom	Possible solution
The player cannot power on.	- The battery level is too low. Connect to PC for charging.
The player cannot be charged automatically when connected to PC.	- Disconnect the player from PC. Then connect it again to PC for charging.
No sound during playback.	- Check whether the volume is too low. - Ensure to plug the earphone firmly.
Keys don't work.	- Check whether the HOLD key is ON. Move the slide switch to OFF position (downward) and try again. - Restart the device.
WMP or PC does not recognize the player.	- Ensure that you have Windows XP and Windows Service Pack 2 installed on your computer before proceeding. - Windows Media Player 10 is recommended. You can download Windows Media Player 10 at www.windowsmedia.com . - Check whether the USB cable is attached firmly. - Check if your PC meets the minimum requirement. - Try to use any other USB port
There is noise during playback.	- Check if the earphone plug is inserted firmly. - Check if the earphone plug is dirty. - The songs may be corrupted, please download other songs and try again.
The music file cannot be played.	- The file may not be compatible with our player. Please check the supported formats in the section "Technical Specification". - Check if it is a copyright protected file, if so, the transfer should be downloaded by Windows Media Player and check if the usage of the copyright protected file is expired.
Characters are corrupted.	- Make sure to select the correct language. Try to download some songs and go through auto music library building process.

TROUBLE SHOOTING

Symptom	Possible solution
The video file cannot be played.	<ul style="list-style-type: none">- Make sure that the video file can be played in Windows Media Player. Use the same PC to convert the video file.- Make sure that the clip contains video and audio content. The player does not support any video file without audio channel.- Make sure the clip is converted successfully through the conversion software.
File can't be seen in PC.	<ul style="list-style-type: none">- Exceed maximum file limit
Some files are missing in the player database.	<ul style="list-style-type: none">- Some file types are not supported (supported types: MP3, JPG, WAV and WMA)- Exceed maximum file limit
Cannot transfer song to player.	<ul style="list-style-type: none">- Capacity of the device is full

TECHNICAL SPECIFICATION

Item	Specification
Size	40 x 87.5 x 8.5 mm (W x H x D)
Net weight	46g
Display	1.8" 128 x 160dots full color TFT display
Frequency range	60Hz ~ 20KHz
Audio format supported	mp3, wma
Video format supported	smv
Power Supply	320mAh lithium polymer rechargeable battery
Battery life per full charge	12 hours of audio playtime, 4 hours of audio + video playtime
Charging mode	Via USB port
Signal to noise ratio	> 85dB
THD	<0.1%
Channel isolation ratio	>40dB
Audio output power	2 x 5mW @32 Ohm
Operation Temperature	0°C ~ 40°C (Non-condensing)
Storage Temperature	-10°C~50 °C (Non-condensing)



Note:

The above specifications are subject to change without prior notice.